

CLAIMS

What is claimed is:

1. A torque transmission device for driving or in drives of agricultural devices or self-propelled working machines, comprising:
 - a coupling having a first coupling element with a connection plate, a second coupling element rotationally arranged to the first coupling element, at least one torque transmission element, transmitting a torque in at least one rotational direction around a longitudinal axis between the first coupling element and the second coupling element;
 - first driving elements connected to the connection plate; and
 - a driving member including rotational abutments, which can be brought into abutment with the first driving elements for a torque transmission around the longitudinal axis after passing a predetermined rotational free motion, and said driving member rotationally supported around the longitudinal axis on the connection plate or on a component connected to the connection plate.
2. The torque transmission device according to claim 1, wherein the driving member includes second driving elements formed as rotational abutments distributed along the circumference around the longitudinal axis and radially projecting from a driving member portion, and gaps in the circumferential direction formed between each said second driving elements, the first driving elements engaging in the gaps in a circumferential direction around the longitudinal axis with a rotational free motion.

3. The torque transmission device according to claim 2, further comprising a support plate held by the first driving element at an axial distance to the connection plate, said driving elements forming distance holders, so that between the support plate and the connection plate a space is formed, and the driving member portion of the driving member is accommodated in the space in a rotatable manner.

4. The torque transmission device according to Claim 1, wherein the driving member forms or comprises a universal joint yoke of a universal joint belonging to a universal joint shaft.

5. The torque transmission device according to Claim 3, wherein the support plate has a bearing bore centered on the longitudinal axis, in which the bearing bore driving member is rotationally supported with a bearing portion.

6. The torque transmission device according to Claim 1, wherein the first driving elements are formed by cylindrical distance sleeves, which are supported on the connection plate and, when a support plate is provided, are also supported on the support plate.

7. The torque transmission device according to Claim 6, wherein the support plate is fixed by screws, passed through the first driving element on the connection plate.

8. The torque transmission device according to Claim 2, wherein three or six second driving elements are integrally formed as rotational abutments on the driving member portion, said second driving elements form three or six gaps respectively, and three or six first driving elements are provided, respectively, in one of the gaps.

9. The torque transmission device according to Claim 1, wherein the rotational abutments are formed by circumferential ends of circular openings in the driving member, and the first driving elements are formed by distance sleeves engaging through the openings and fixed by screws on the connection plate.

10. The torque transmission device according to Claim 1, wherein the coupling is formed as a torque limiting coupling, wherein retaining elements arranged as torque transmission elements are elastically supported between the coupling housing and the coupling hub.

11. The torque transmission device according to Claim 1, wherein the coupling is formed as a friction coupling.

12. A torque transmission device for driving or in drives of agricultural implements or self-propelled working machines comprising:

a connection plate;

first driving elements connected to the connection plate; and

a driving member including rotational abutments, which can be brought into abutment with the first driving elements for a torque transmission around a longitudinal axis after having passed a predetermined free rotational motion, said driving member rotationally supported around the longitudinal axis on the connection plate or on a component connected to the connection plate.